

# 2022 MILITARY HEALTH SYSTEM RESEARCH SYMPOSIUM

TBICoE Presentation and Poster Agenda

SEPT. 12-15

## MONDAY, SEPT. 12

BREAKOUT SESSIONS	Novel Clinical Assessments & Interventions for mild Traumatic Brain Injury		
3-6 p.m. ET	<p style="text-align: center;"><b>Development and Clinical Validation of Technology for Multimodal Neurocognitive Assessment of Traumatic Brain Injury among Active Duty Military Personnel</b></p> <p style="text-align: center;">Mark Ettenhofer, PhD, Sarah Gimbel, PhD, Evelyn Cordero, MA, Jenna Trotta, MS, and Lars Hungerford, PhD</p>	<p style="text-align: center;"><b>Strategic Memory Advanced Reasoning Training (Smart) as a Novel Approach to Cognitive Rehabilitation in Warfighters: Preliminary Findings from the VoCET Clinical Trial</b></p> <p style="text-align: center;">Jason Bailie, PhD, Ida Babakhanyan, PhD, Paul Sargent, MD, Juan Lopez, Melissa Caswell, Angela Basham, MPH, Lori Barnard, MA, CCC-SLP, RRT, Ana Siblesz, MA, SLP, Rosemay Remigio-Baker, PhD, MPH, Erin Venza, MS, Jennifer Zientz, MS, and Sandi Chapman, PhD</p>	<p style="text-align: center;"><b>An Independent Analysis of the Potential Diagnostic Accuracy of the Brain Gauge Tactile-Based Cognitive Assessment Aid for Acute Mild Traumatic Brain Injury Using Data From Military Service Members</b></p> <p style="text-align: center;">Brian Ivins, MPS, Jacques Arrieux, MA, Wesley Cole, PhD, and Joanna Pascal, PsyD</p>

## TUESDAY, SEPT. 13

POSTER SESSION 1			
10 a.m.- Noon ET	<p style="text-align: center;"><b>The Impact of Lifetime Traumatic Brain Injury and Blast Exposure on Mental Health Symptoms Among Service Members</b></p> <p style="text-align: center;">Rosemay Remigio-Baker, PhD, MPH, Jason Bailie, PhD, Mark Ettenhofer, PhD, Evelyn Cordero, and Lars Hungerford, PhD</p>	<p style="text-align: center;"><b>Facilitators and Barriers to Non-Pharmacologic Chronic Pain Treatment for Service Members and Veterans with Traumatic Brain Injury</b></p> <p style="text-align: center;">Bridget Cotner, PhD, Danielle O'Connor, MA, MPH, Risa Nakase-Richardson, PhD, Steven Scott, DO, and Jeanne Hoffman, PhD (TBICoE Affiliation as Co-Authors)</p>	<p style="text-align: center;"><b>Sleep Apnea as a Potential Contributor To Chronic Pain Following Moderate To Severe TBI: A TBI Model Systems Study</b></p> <p style="text-align: center;">Aaron Martin, PhD, Shanti Pinto, MD, Xinyu Tang, PhD, Jeanne Hoffman, PhD, Daniel Schwartz, MD, Lara Wittine, MD, William Walker, MD, Georgia Kane, MD, S. Curtis Takagishi, PhD, and Risa Nakase-Richardson, PhD (TBICoE Affiliation as Co-Authors)</p>
POSTER SESSION 2			
4-6 p.m. ET	<p style="text-align: center;"><b>Diagnostic Biomarkers for Mild Traumatic Brain Injury Detected by Extracellular Vesicles: A Pilot Study</b></p> <p style="text-align: center;">Jacques Arrieux, MA, Joshua Gatson, PhD, Rosemay Remigio-Baker, PhD, MPH, Vivian Guedes, DSc, Dilorom Sass, PhD, MSN, RN, Ethan Smith, Sara Mithani, PhD, and Wesley Cole, PhD</p>	<p style="text-align: center;"><b>Transcranial Direct Current Stimulation to Improve Complex Attention Following Mild Traumatic Brain Injury</b></p> <p style="text-align: center;">Lars Hungerford, PhD, and Casey Gilmore, PhD</p>	<p style="text-align: center;"><b>Characterization of Tri-Service Work Flow Form Usage for Acute Concussion Management in Military Healthcare</b></p> <p style="text-align: center;">Quentin O'Kelly, Lauren Earyes, Lemma Regasa, PhD, Lori Dickerson-Odoms, Gary McKinney, DHSc, and Stephanie Maxfield Panker, PhD</p>
	<p style="text-align: center;"><b>Feasibility of a Head-Mounted Virtual Reality System (Fusion mVR) for Neurocognitive Eye Tracking within Military Medical Settings</b></p> <p style="text-align: center;">Mark Ettenhofer, PhD, Jenna Trotta, MS, Stephanie Agtarap, PhD, and Lars Hungerford, PhD</p>	<p style="text-align: center;"><b>Do Clinical Eye Tracking Tests for mTBI Predict Eye Movements During VR Military Tasks? A Preliminary Study</b></p> <p style="text-align: center;">Sarah Gimbel, PhD, Mark Ettenhofer, PhD, Weimin Zheng, PhD, Hedaya Rizeq, Jacob VanDehy, Angelica Aguirre, Lars Hungerford, PhD, and Pinata Sessoms, PhD</p>	<p style="text-align: center;"><b>Women Report Worse Neurobehavioral Symptoms than Men following Uncomplicated Mild Traumatic Brain Injury in U.S. Military Service Members</b></p> <p style="text-align: center;">Ida Babakhanyan, PhD, Tracey Brickell, Dpsych, Jason Bailie, PhD, Lars Hungerford, PhD, Sara Lippa, PhD, Louis French, PsyD, and Rael Lange, PhD</p>
	<p style="text-align: center;"><b>Compensatory and Restorative Cognitive Training Apps Following TBI: Initial Feasibility and Acceptability in Veterans and Service Members</b></p> <p style="text-align: center;">Amber Keller, Lars Hungerford, PhD, Sara Lippa, PhD, Mark Ettenhofer, PhD, and Elizabeth Twamley, PhD (TBICoE Affiliation as Co-Authors)</p>	<p style="text-align: center;"><b>Targeted Dietary Manipulation as an Adjunct Strategy to Reduce Pain in Chronic Post-Traumatic Headache Among Service Members</b></p> <p style="text-align: center;">Margaret Dunlap, MS, Jacques Arrieux, MA, Keturah Faurot, PhD, MPH, PA, Beth MacIntosh, MPH, Wesley Cole, PhD, Cora Davis, Melissa Guerra, MD, J Douglas Mann, MD, Carol Moore, Wanda Rivera, RD, Anthony Domenichiello, PhD, Ann Nothwehr, MPH, Leah Cramer, Brittney Roberson, MA, MSW, Rian Ory, Olafur Palsson, PsyD, Rebecca Sandlain, Ruth Clark, MS, RD, Chris Ramsden, MD, PhD, and Kimbra Kenney, MD (TBICoE Affiliation as Co-Authors)</p>	<p style="text-align: center;"><b>Effect of Provider Instruction on Three Day Follow-Up Rates After Acute Concussion</b></p> <p style="text-align: center;">Lauren Earyes, Lemma Regasa, PhD, Quentin O'Kelly, Lori Dickerson-Odoms, Gary McKinney, DHSc, and Stephanie Maxfield Panker, PhD</p>

### YOUNG INVESTIGATOR COMPETITION - PLENARY SESSION

BREAKOUT SESSION	Suicide Prevention Research Initiatives in DOD		
3:30- 5:30 p.m. ET	<p style="text-align: center;"><b>Differential Impact of Sleep Disturbances on Suicidal Ideation in Veterans with Traumatic Brain Injury: A VA TBI Model Systems Study</b></p> <p style="text-align: center;">Alexandria Gonzalez, PsyD, Marc Silva, PhD, Victoria Liou-Johnson, PhD, Daniel Klyce, PhD ABPP, Nicolette Carnahan, MA, Aaron Martin, PhD, Laura Dreer, PhD, Jordan Moberg, MPH, and Risa Nakase-Richardson, PhD (TBICoE Affiliation as Co-Authors)</p>		

## WEDNESDAY, SEPT. 14

BREAKOUT SESSIONS	Military Exposures and Subsequent Long-term Outcomes	NDAF FY18 Sec 734 - The Longitudinal Medical Study on Blast Exposure of Members of the Armed Forces: Program Overview and Updates	
8-10 a.m. ET	<p style="text-align: center;"><b>The Impact of History of Recurrent TBI on the Protective Effects of Resilience on Mental Health Recovery Among Service Members with Traumatic Brain Injury</b></p> <p style="text-align: center;">Rosemay Remigio-Baker, PhD, MPH, Jason M. Bailie, PhD, Donald Marion, MD, Daniel Kim, MA, Angela Basham, MPH, and Keith Stuessi, MD</p>	<p style="text-align: center;"><b>The NDAF FY18 Section 734 Program's Health and Performance Line of Inquiry: Overview of Findings Suggesting that Low-Level Blast Exposure is Associated with Adverse Brain Health Outcomes</b></p> <p style="text-align: center;">Stephanie Soley, PhD, Stephanie Turner, MS, Ida Babakhanyan, PhD, Jason Bailie, PhD, and Emma Gregory, PhD</p>	
10 a.m.- Noon ET	<p style="text-align: center;"><b>Risk Factors for the Presence and Persistence of Post-Traumatic Stress Symptoms Following Traumatic Brain Injury and Polytrauma in U.S. Service Members and Veterans</b></p> <p style="text-align: center;">Rael Lange, PhD, Louis French, PsyD, Sara Lippa, PhD, Jason Bailie, PhD, Lars Hungerford, PhD, Jan Kennedy, PhD, Megan Wright, MA, Jamie Sullivan, BA, Nicole Varbedian, BS, Samantha Baschenis, MS, Kelly Gillow, MS, Megan Glazer, MS, Corie Tippett, MA, Alicia Rogers, BS, Anice Byrd, BA, Kendal Cristaudo, MA, Kathryn Nose, BA, Lauren Rather, BS, Nicole Tien, BS, Thomas Walker, BA, and Tracey Brickell, DPsych</p>	<p style="text-align: center;"><b>Aggression in Military Members with Mild Traumatic Brain Injury and Post-Traumatic Stress Disorder is Associated with Intimate Partner Health-Related Quality of Life</b></p> <p style="text-align: center;">Tracey Brickell, DPsych, Louis French, PsyD, Megan Wright, MA, Jamie Sullivan, BA, Nicole Varbedian, BS, Samantha Baschenis, MS, Kelly Gillow, MS, Megan Glazer, MS, Corie Tippett, MA, Alicia Rogers, BS, Anice Byrd, BA, Kendal Cristaudo, MA, Kathryn Nose, BA, Lauren Rather, BS, Nicole Tien, BS, Thomas Walker, BA, and Rael Lange, PhD</p>	
	<p style="text-align: center;"><b>Behavioral, Sleep, and Medical History Predictors of Vestibular Symptoms and Impairment in Military Personnel and Civilians following mTBI: A T-REV Clinical Trial Study</b></p> <p style="text-align: center;">Anthony Kontos, PhD, CAPT Alicia Souvignier, DPT, Christina Fitzpatrick, PT, Clair Smith, MS, Michael Collins, PhD, Joseph Furman, MD, PhD, Anne Mucha, PhD, Charity Patterson, PhD, MSPH, Susan Whitney, DPT, PhD, NCS, ATC, FAPTA, Kelsie Fucci, Selena Bobula, DPT, Jamie Hershaw, PhD, Hannah Bitzer, Candace Pearson, LPCC, Nicholas Wood, and Patrick Sparto, PhD (TBICoE Affiliation as Co-Authors)</p>	<p style="text-align: center;"><b>Obstructive Sleep Apnea Risk is Associated with Number of White Matter Hyperintensities, but History of Mild TBI Exposure is Not: A LIMBIC-CENC Study</b></p> <p style="text-align: center;">Amanda Garcia, PhD, Elisabeth Wilde, PhD, David Tate, PhD, Tea Reljic, MPH, Kimbra Kenney, MD, Maya Troyanskaya, MD, Amma Agyemang, PhD, MPH, William Walker, MD, and Risa Nakase-Richardson (TBICoE Affiliation as Co-Authors)</p>	

## THURSDAY, SEPT. 15

8-8:30 a.m. ET	<b>2022 MHSRS AWARDS</b> YOUNG INVESTIGATOR & POSTER AWARD PRESENTATIONS		
BREAKOUT SESSIONS	Blast, Blunt, Accelerative Exposure in Military Training Exercises		

8:45- 10:45 a.m. ET	<p style="text-align: center;"><b>Blast Effects on Neurocognitive Functioning in a Mixed Sample of Special Operations and Conventional Military Forces</b></p> <p style="text-align: center;">Lars Hungerford, PhD, Mark Ettenhofer, PhD, and Jenna Trotta, MS</p>	<p style="text-align: center;"><b>Lifetime Blast Exposure During Military Career Negatively Impacts Recovery from Traumatic Brain Injury</b></p> <p style="text-align: center;">Jason Bailie, PhD, Sara Lippa, PhD, Lars Hungerford, PhD, Louis French, PsyD, Tracey Brickell, Dpsych, and Rael Lange, PhD</p>
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BREAKOUT SESSIONS	Military Centric Therapeutic Strategies for Traumatic Brain Injury		Novel Treatments, Strategies, and Technologies in Hearing and Balance Health
11 a.m.- 1 p.m. ET	<p style="text-align: center;"><b>A Comparison of Vestibular Function Between Civilian and Military Mild Traumatic Brain Injury Patients</b></p> <p style="text-align: center;">Nicholas Wood, Kelsie Fucci, Candace Pearson, LPCC, James Hentig, PhD, Jamie Hershaw, PhD, Christina Fitzpatrick, PT, Clair Smith, MS, Michael Collins, PhD, Joseph Furman, MD, PhD, Anne Mucha, PhD, Charity Patterson, PhD, MSPH, Susan Whitney, DPT, PhD, NCS, ATC, FAPTA, Shawn Eagle, PhD, Hannah Bitzer, CAPT Alicia Souvignier, DPT, Anthony Kontos, PhD, and Patrick Sparto, PhD</p>	<p style="text-align: center;"><b>Associations Among Patient-Reported and Performance-Based Assessment of Vestibular Symptoms and Function Following mTBI</b></p> <p style="text-align: center;">Laura Wolff, MBS, Kelsie Fucci, Nicholas Wood, Candace Pearson, LPCC, James Hentig, PhD, Jamie Hershaw, PhD, Christina Fitzpatrick, PT, Clair Smith, MS, Michael Collins, PhD, Joseph Furman, MD, PhD, Anne Mucha, PhD, Charity Patterson, PhD, MSPH, Susan Whitney, DPT, PhD, NCS, ATC, FAPTA, Shawn Eagle, PhD, Hannah Bitzer, Selena Bobula, DPT, CAPT Alicia Souvignier, DPT, Patrick Sparto, PhD, and Anthony Kontos, PhD</p>	<p style="text-align: center;"><b>Vestibular Rehabilitation Exercise Compliance Using Text Message-Based Surveys Following mTBI in Military Personnel and Civilians: A T-REV Clinical Trial Study</b></p> <p style="text-align: center;">Patrick Sparto, PhD, CAPT Alicia Souvignier, DPT, Christina Fitzpatrick, PT, Clair Smith, MS, Michael Collins, PhD, Joseph Furman, MD, PhD, Anne Mucha, PhD, Charity Patterson, PhD, MSPH, Susan Whitney, DPT, PhD, NCS, ATC, FAPTA, Shawn Eagle, PhD, Jamie Hershaw, PhD, Hannah Bitzer, Candace Pearson, LPCC, Nicholas Wood, Kelsie Fucci, Selena Bobula, DPT, and Anthony Kontos, PhD (TBICoE Affiliation as Co-Authors)</p>